

OPINION 1102

COMPLETION OF ENTRY ON OFFICIAL LIST OF GENERIC NAMES IN ZOOLOGY RELATING TO *LUMBRICUS LINNAEUS*, 1758 (ANNELIDA, OLIGOCHAETA) (NAME No. 213)

RULING.- (1) Under Article 70a(iii), the type-species of the nominal genus *Enterion* Savigny, [1822], is hereby designated as *Lumbricus terrestris* Linnaeus, 1758.

(2) The generic name *Lumbricus* Linnaeus, 1758 (gender, masculine), type-species, by subsequent designation by Stiles & Hassall, 1903, *Lumbricus terrestris* Linnaeus, 1758, is hereby placed on the Official List of Generic Names in Zoology with the Name Number 213.

(3) The specific name *terrestris* Linnaeus, 1758, as published in the binomen *Lumbricus terrestris*, and as interpreted by the neotype designated by Sims (1973) (specific name of type-species of *Lumbricus* Linnaeus, 1758) is hereby placed on the Official List of Specific Names in Zoology with the Name Number 2629.

(4) The family name LUMBRICIDAE Rafinesque, 1815, type-genus *Lumbricus* Linnaeus, 1758, is hereby placed on the Official List of Family-Group Names in Zoology with the Name Number 488.

(5) The generic name *Enterion* Savigny, [1822] (rendered a junior objective synonym of *Lumbricus* Linnaeus, 1758 by the ruling given in (1) above) is hereby placed on the Official Index of Rejected and Invalid Generic Names in Zoology with the Name Number 2089.

HISTORY OF THE CASE Z.N.(S.) 272

In Opinion 75 (*Smithson. misc. Collns* vol. 73: 35-37) the International Commission on Zoological Nomenclature placed on the Official List of Generic Names in Zoology with Name Number 213, the name *Lumbricus* Linnaeus, 1758, type-species *Lumbricus terrestris* Linnaeus, 1758. When the Official List was published in book form in 1958, the entry for Name Number 213 was replaced by a comment that the entry had been withdrawn for further consideration by the Commission. This was due to disagreement between specialists as to the identity of the type-species. The matter then lapsed until the present application was submitted to the office of the Commission by Mr. R.W. Sims (*British Museum (Natural History)*, U.K.). In addition to designating a neotype for *L.*

terrestris and asking that the name be placed on the appropriate Official List, Mr. Sims asked that certain other names be placed on Official Lists and Indexes. The application was sent to the printer on 29 January 1973 and was published on 6 July 1973 in *Bull. zool. Nom.* vol. 30: 27-33, together with a memorandum from Dr. G.E. Gates (: 34) on the species name *Lumbricus terrestris*.

Public Notice of the possible use of the plenary powers in the present case was given in the same part of the *Bulletin*, as well as to the other serial publications prescribed in the Constitution, Article 12(b), and to fourteen zoological serials.

Comments in support of the proposals were received from Mons. M.B. Bouché (*Bull. zool. Nom.* vol. 30: 68); from Prof. Per Brinck (: 132), and from Dr. D.G. Cook (*Canada Centre for Inland Waters, Burlington, Ontario, Canada*). Prof. O. Graff (*Institut für Bodenbiologie, Braunschweig, B.R.D.*) supported only those clauses of the application dealing with *Lumbricus* and the consequential clauses, but opposed those dealing with *Nicodrilus*. The latter, involving clauses (1), (3) and (4) (b) were withdrawn by the applicant.

On 22 September 1976 the members of the Commission were invited to vote under the Three-Month Rule on Voting Paper (76)13 either for or against the proposals set out in *Bull. zool. Nom.* vol. 30: 30, clauses (2), (4) (a), (5), and (6) only. At the close of the Voting Period on 22 December 1976, the state of the voting was as follows:

Affirmative votes - twenty-three (23) received in the following order: Melville, Eisenmann, Mroczkowski, Holthuis, Vokes, Willink, Heppell, Lemche, Brinck, Rohdendorf, Tortonese, Ride, Bayer, Habe, Binder, Corliss, Sabrosky, Starobogatov, Welch, Dupuis, Nye, Kraus, Bernardi

Negative votes - none (0).

A late affirmative vote was received from Professor Alvarado.

The following comments were sent in by members of the Commission with their Voting Papers:

Mr. Heppell: The reference given for the family name LUMBRICIDAE is incorrect. The earliest use of this name known to me is by Johnston, 1865, *Catalogue of the British non-parasitical worms in the collection of the British Museum*: 55, but LUMBRICINA used in a family sense seems to be earlier. Agassiz, 1846, *Nomenclator Zoologicus* (fasc. 4: Vermes): 8 attributed LUMBRICINAE to Savigny, [1826], *Système des Annélides*. I have not verified this; it is possible that Agassiz has latinized a vernacular name of Savigny. I therefore vote for clause (5) subject to the correction of the information given concerning the author and date of LUMBRICIDAE.

Dr. Ride: The application is incomplete. Sims demonstrates that *Enterion* Savigny, 1822, is based on a misidentified type-species. Accordingly, for *Enterion* to be a junior objective synonym of *Lumbricus* Linnaeus, the Commission must be asked to designate *L. terrestris* Linnaeus, 1758, as type-species of *Enterion* in accordance with the provisions of Article 70(a)(iii).

Dr. Dupuis: Mes compliments à O. Graff pour avoir proposé de limiter l'Opinion aux points (2), (4)(a), (5) et (6).

Dr. Bernardi. Je suis surtout convaincu par les arguments par G.E. Gates, qui prouvent que c'est bien le "nightcrawler" que Linné avait en vue.

FURTHER ACTION BY THE COMMISSION

On receiving the comment by Mr. Heppell quoted above, the Secretary examined the *Système des Annélides* by Savigny. This work was published in *Description de l'Egypte*, etc., *Histoire naturelle*, vol. 1, pt. 3, 228 pp. In it the Annelids are divided into four orders, of which the third (: 5) is the Lumbricinae. This Order is divided into two families, of which the second (: 100) is the "Lumbrici". This includes as its first genus *Enterion*, in which the only species is *Enterion terrestre*, with *Lumbricus terrestris* Linnaeus in synonymy. Under Art. 11e(iii), therefore, this seems to satisfy the requirements for availability, and Savigny should be cited as the author of LUMBRICIDAE.

Sherborn (1897, *Proc. zool. Soc. London*: 287) discussed the date of this work. He said: "Vol. I, pt. 3, *Annelids*, by J.C. Savigny, pp. 1-128. This was reviewed in *Gött. gelehr. Anz.* (1827, p. 695). Engelmann, *Bib. Hist. Nat.* p. 550, gives the date as 1820, but the review quoted above leaves little doubt that 1822 is the correct date."

A revised proposal is therefore submitted in which the authorship and date of the family name is changed to LUMBRICIDAE Savigny, [1822].

On receiving the comment by Dr. Ride quoted above, the Secretary wrote to Dr. Ride agreeing that a further vote would be needed. However, since it is proposed that the Commission designate the sole nominal species actually referred to the genus by Savigny regardless of the misidentification - i.e. *Lumbricus terrestris* - under Art. 70a(iii), no use of the plenary powers is involved, and under existing By-Law III(3) the question can be dealt with under the One-Month Rule.

The Commission is accordingly asked:-

- (1) to designate *Lumbricus terrestris* Linnaeus, 1758 as the type-species of the nominal genus *Enterion* Savigny, [1822];
- (2) to place the generic name *Enterion* Savigny, [1822], type-species, by designation under (1) above, *Lumbricus terrestris* Linnaeus, 1758 (a junior objective synonym of *Lumbricus* Linnaeus, 1758) on the Official Index of Rejected and Invalid Generic Names in Zoology;
- (3) to place the family name LUMBRICIDAE Savigny, [1822], type-genus *Lumbricus* Linnaeus, 1758 (Annelida, Oligochaeta) on the Official List of Family-Group Names in Zoology.

DECISION OF THE COMMISSION

The above proposals were put to the Commission on voting paper (O.M.) (77)2 on 1 July 1977. At the close of the voting period on 1 August 1977 the state of the voting was as follows:

Affirmative votes - seventeen (17) received in the following order: Melville, Dupuis, Binder, Vokes, Eisenmann, Sabrosky, Willink, Mroczkowski, Nye, Brinck, Heppell, Starobogatov, Ride, Holthuis, Bayer, Rohdendorf, Welch

Negative votes - none (0).

Professor Habe and Dr Corliss sent in late affirmative votes. No voting papers were returned by Drs Alvarado, Bernardi, Cogger, Kraus, Lemche, and Tortonese.

Dr Dupuis made his vote conditional where the date of LUMBRICIDAE Savigny is concerned. He asked that the ruling explain that the source of that date is Sherborn, C.D., 1897, *Proc. zool. Soc. London* (1897): 287. However, the following comment by Dr Holthuis appears to make that step unnecessary.

Dr Holthuis observed: "C.S. Rafinesque, 1815, *Analyse de la Nature; ou tableau de l'univers et des corps organisés*: 135, created a "S.F. [sous-famille] Lumbricina" containing 15 genera, one of which is *Lumbricus* Linnaeus. Rafinesque, 1815, should thus be cited as the author of the family name LUMBRICIDAE." This reference has been verified and applied to the ruling as giving the earliest author and date for the name at present known to the Commission.

ORIGINAL REFERENCES

The following are the original references for the names placed on Official Lists and an Official Index by the ruling given in the present Opinion:

Enterion Savigny, [1822] (fide Sherborn, 1897), *Description de l'Egypte, ou recueil des observations et des recherches . . . Histoire naturelle*, Vol. 1, pt. 3: 103

LUMBRICIDAE Rafinesque, 1815, *Analyse de la Nature*: 135 (as *Lumbricinia*)

Lumbricus Linnaeus, 1758, *Syst. Nat.*, ed. 10, vol. 1: 647

terrestris, *Lumbricus*, Linnaeus, 1758. *Syst. Nat.*, ed. 10, vol. 1: 647

The following is the original reference for a designation of type-species accepted in the present Opinion:

of *terrestris* Linnaeus, 1758, for *Lumbricus* Linnaeus, 1758, by Stiles, C.W. & Hassall, A., 1903, *Bull. Bur. Anim. Ind. U.S. Dep. Agric.*, vol. 79: 118

CERTIFICATE

I certify that the votes cast on voting papers (76)13 and (O.M.) (77)2 were cast as set out above, that the proposals contained in those voting papers have been duly adopted, and that the decisions so taken, being the decisions of the International Commission on Zoological Nomenclature, are duly recorded in the present Opinion No. 1102.

R.V. MELVILLE

Secretary

International Commission on Zoological Nomenclature

London

5 August 1977